Macroheterocycles 2013 vol.6 N1, pages 47-52

Thiacalix[4]arenes with triple bonds at the lower rim: Synthesis and structure

Epifanova N., Popova E., Solovieva S., Latypov S., Antipin I., Konovalov A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Reaction of thiacalixarenes with propargyl bromide in the presence of potassium or cesium carbonates leads mainly to mixture of the corresponding tetrasubstituted derivatives adopting 1,3-alternate and partial cone conformations. Sodium salts like carbonate and hydride are not effective as the base for the etherification of lower rim of thiacalix[4]- arenes by propargyl bromide. It was established that propargyl derivatives of thiacalix[4]arenes are in conformational exchange between forms due rotation of one aryl ring. © ISUCT Publishing.

http://dx.doi.org/10.6060/mhc121108s

Keywords

Conformational exchange, Propargyl bromide, Thiacalexarenes, Triple bonds